

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1343690

Luminaire Tested: P3A13R15B2750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R15B2750DE010 E3CA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

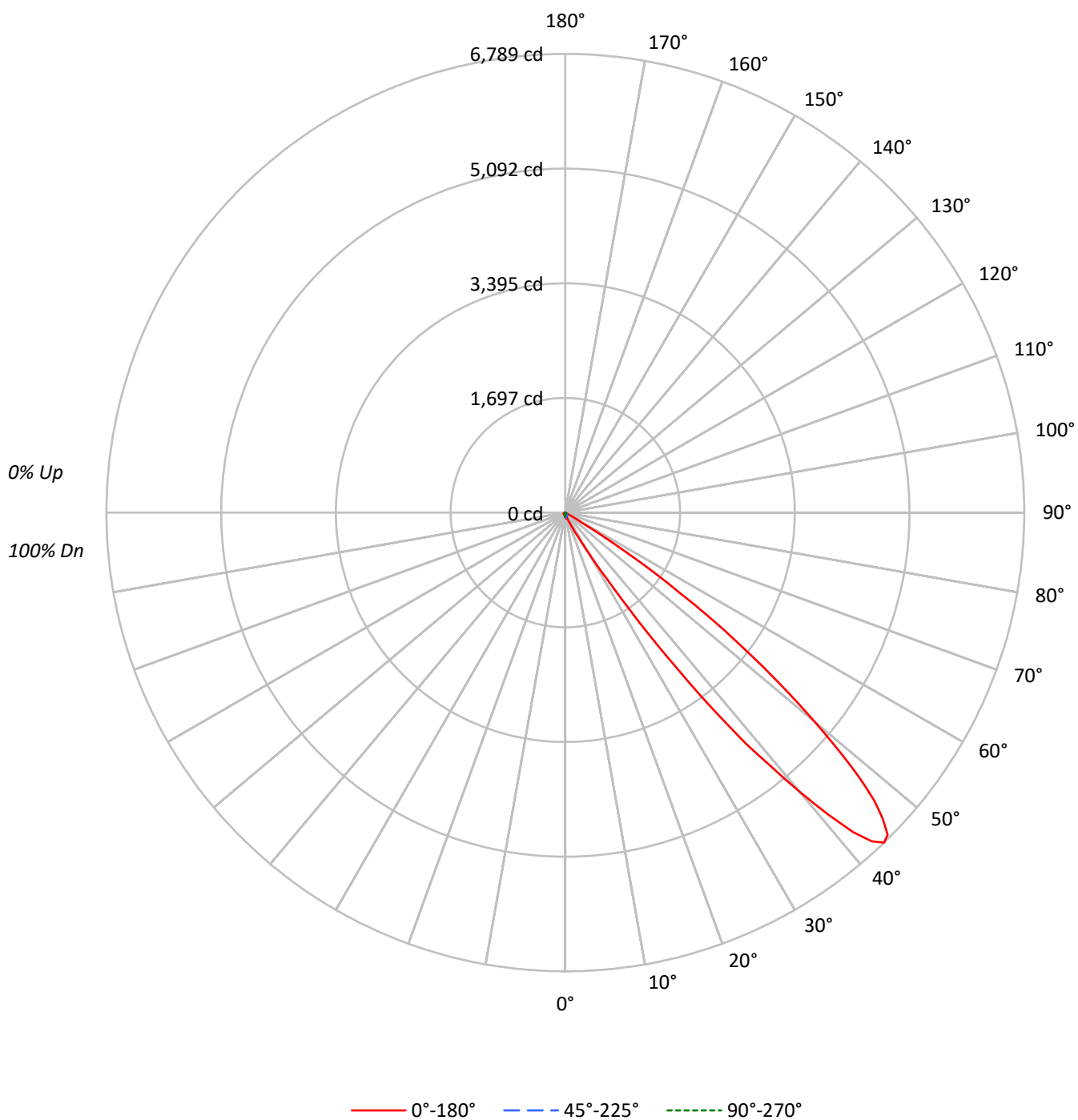
Lumens per Lamp: N/A
Luminaire Lumens: 758.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14758	14758	14758	14758	14758
5°	18292	16311	13317	11644	11490
10°	18013	13961	10265	9085	9263
15°	14938	9943	7378	7560	8059
20°	25926	7934	5647	6534	7397
25°	57778	9509	4573	6025	6944
30°	172811	11673	4026	5925	7267
35°	665242	13144	3641	6077	7683
40°	1544064	11479	3464	6269	8215
45°	2091380	8683	3039	6791	8900
50°	1639827	5151	3104	7232	9791
55°	787088	2294	2906	7799	10705
60°	71924	351	2631	8289	11929
65°	7835	0	2335	8613	12920
70°	1923	0	2885	9232	14041
75°	1949	678	3813	10252	16013
80°	1894	1894	4799	10481	17174
85°	2013	2013	7548	9561	19121

MAXIMUM LUMINANCE 45°-90°:

Luminance: 2091380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.8
10°-20°	12.0	1.6
20°-30°	28.6	3.8
30°-40°	156.8	20.7
40°-50°	379.7	50.1
50°-60°	151.5	20.0
60°-70°	13.1	1.7
70°-80°	7.4	1.0
80°-90°	3.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	46.3	6.1
0°-40°	203.1	26.8
0°-60°	734.3	96.9
0°-90°	758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	83	74	60	53	52	8
15°	66	44	32	33	36	23
25°	239	39	19	25	29	144
35°	2485	49	14	23	29	1756
45°	6744	28	10	22	29	4757
55°	2059	6	8	20	28	1918
65°	15	0	4	17	25	39
75°	2	1	4	12	19	2
85°	1	1	3	4	8	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	75.6	75.6	76.3	75.6	75.6	75.6	75.6	74.8	74.8	74.8	72.6
5°	83.1	83.1	83.1	83.1	82.4	82.4	82.4	81.6	81.6	80.9	74.1
7.5°	86.2	86.2	85.4	85.4	84.6	84.6	83.9	83.1	82.4	81.6	71.0
10°	80.9	80.9	80.9	80.1	80.1	79.4	78.6	77.8	77.1	75.6	62.7
12.5°	71.8	71.8	72.6	71.8	71.0	70.3	68.8	68.0	67.3	65.8	52.2
15°	65.8	65.8	65.8	65.0	64.2	62.7	62.0	60.5	59.7	57.4	43.8
17.5°	83.9	83.9	83.1	81.6	78.6	76.3	72.6	69.5	65.8	61.2	37.8
20°	111.1	111.1	109.6	108.1	104.3	100.5	94.5	89.2	83.1	77.8	34.0
22.5°	161.0	163.3	158.7	153.4	148.1	139.1	130.8	122.4	111.9	102.8	34.8
25°	238.8	241.1	238.8	226.7	216.9	204.8	188.9	172.3	154.2	137.6	39.3
27.5°	387.0	388.5	384.7	355.2	339.4	307.6	279.6	252.4	222.2	192.0	43.1
30°	682.5	683.2	659.1	600.1	548.0	478.4	419.5	362.8	315.2	266.8	46.1
31°	898.6	877.5	826.1	755.0	671.9	578.2	497.3	424.0	353.0	300.8	46.9
32°	1141.3	1138.2	1052.8	929.6	818.5	701.4	579.7	486.0	404.4	333.3	47.6
33°	1462.5	1464.0	1329.4	1184.3	1002.2	845.0	685.5	557.0	458.8	371.9	49.1
34°	1964.3	1846.4	1688.5	1491.9	1244.0	1007.5	800.4	639.4	507.9	408.9	49.1
35°	2485.1	2366.4	2192.6	1894.8	1554.7	1223.6	937.2	727.8	566.8	448.9	49.1
36°	3068.5	2968.0	2705.0	2324.8	1891.0	1427.7	1082.3	829.9	625.0	485.2	48.4
37°	3698.9	3551.5	3259.8	2844.8	2264.4	1714.9	1259.2	931.1	683.2	524.5	46.9
38°	4339.0	4206.0	3837.9	3335.3	2710.3	2018.0	1436.0	1028.6	736.9	554.0	44.6
39°	4824.3	4751.7	4386.6	3825.1	3066.3	2305.2	1618.2	1132.9	793.6	583.5	42.3
40°	5394.1	5277.0	4930.8	4236.2	3487.2	2597.7	1796.5	1225.1	840.4	606.9	40.1
41°	5914.1	5766.0	5329.1	4658.0	3824.3	2860.7	1965.8	1320.4	878.2	620.5	38.5
42°	6360.0	6187.7	5731.2	5019.2	4106.2	3070.8	2101.1	1388.4	913.8	631.8	36.3
43°	6648.7	6499.9	6050.9	5290.6	4347.3	3263.5	2227.3	1459.4	935.7	639.4	33.3
44°	6789.3	6638.9	6204.3	5460.6	4495.5	3379.2	2309.0	1508.6	959.9	649.2	31.0
45°	6744.0	6591.3	6171.1	5463.7	4541.6	3420.7	2343.7	1530.5	972.7	658.3	28.0
46°	6536.1	6428.8	6005.6	5321.6	4453.9	3376.1	2324.1	1513.9	968.2	658.3	24.9
47°	6244.4	6122.0	5719.1	5077.4	4241.5	3261.3	2244.7	1463.2	940.2	643.2	21.9
48°	5846.8	5742.5	5319.3	4689.7	3915.8	3011.1	2065.6	1380.8	896.4	613.7	18.9
49°	5348.0	5202.9	4809.1	4193.9	3491.0	2655.9	1830.5	1241.8	826.1	572.1	16.6
50°	4806.9	4627.7	4323.9	3697.4	3051.9	2277.2	1521.4	1049.8	727.1	517.7	15.1
51°	4277.1	4094.9	3805.4	3272.6	2583.3	1889.5	1227.4	838.2	598.6	442.9	12.8
52°	3727.6	3574.9	3250.7	2832.0	2211.5	1531.2	1022.6	708.9	497.3	371.9	10.6
53°	3180.4	3076.1	2767.7	2343.7	1776.9	1250.8	835.2	606.9	433.8	318.2	8.3
54°	2632.4	2518.3	2284.0	1906.1	1432.2	987.1	708.2	507.9	376.4	277.4	7.6
55°	2058.8	1999.8	1783.7	1453.4	1085.3	787.5	574.4	436.9	315.2	232.0	6.0
56°	1585.7	1519.2	1321.9	1054.3	806.4	616.7	464.8	356.7	266.8	194.2	4.5
57°	1038.5	970.4	839.7	736.1	587.3	449.7	355.2	281.2	216.9	161.0	3.8
58°	613.7	551.7	531.3	453.5	391.5	305.3	262.3	209.4	160.2	127.0	2.3
59°	281.9	286.4	254.7	238.8	216.9	194.2	159.5	139.8	109.6	91.5	1.5
60°	164.0	154.9	151.2	135.3	120.2	106.6	96.0	84.6	68.8	59.0	0.8
62.5°	55.9	53.7	55.2	49.9	46.9	45.3	41.6	35.5	29.5	24.2	0.0
65°	15.1	15.1	14.4	13.6	12.8	12.1	11.3	9.8	9.1	7.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.3	5.3	4.5	4.5	3.8	3.8	3.0	3.0	2.3	2.3	0.0
70°	3.0	3.0	3.0	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.0
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.8
75°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	69.5	66.5	62.7	60.5	59.7	59.0
5°	66.5	60.5	55.9	52.9	52.2	52.2
7.5°	59.7	52.9	48.4	46.9	46.1	46.1
10°	52.2	46.1	42.3	40.8	41.6	41.6
12.5°	43.8	38.5	37.0	37.0	37.8	38.5
15°	35.5	32.5	32.5	33.3	34.8	35.5
17.5°	29.5	28.0	28.7	30.2	31.7	33.3
20°	24.2	24.2	25.7	28.0	30.2	31.7
22.5°	20.4	21.2	23.4	25.7	28.7	30.2
25°	17.4	18.9	21.2	24.9	28.0	28.7
27.5°	15.1	17.4	20.4	24.2	27.2	28.7
30°	12.8	15.9	19.7	23.4	27.2	28.7
31°	12.1	15.1	18.9	23.4	27.2	28.7
32°	11.3	15.1	18.9	23.4	27.2	28.7
33°	10.6	14.4	18.9	22.7	27.2	28.7
34°	9.8	14.4	18.9	23.4	27.2	28.7
35°	9.1	13.6	18.1	22.7	26.5	28.7
36°	8.3	13.6	18.1	22.7	27.2	28.7
37°	7.6	13.6	18.1	22.7	26.5	28.7
38°	7.6	12.8	17.4	22.7	26.5	28.7
39°	6.8	12.1	17.4	22.7	26.5	28.7
40°	6.0	12.1	16.6	21.9	26.5	28.7
41°	5.3	11.3	16.6	21.9	26.5	28.7
42°	4.5	11.3	16.6	21.9	26.5	28.7
43°	3.8	10.6	15.9	21.9	26.5	28.7
44°	3.8	10.6	15.9	21.9	26.5	28.7
45°	3.0	9.8	15.1	21.9	26.5	28.7
46°	3.0	9.8	15.1	21.2	26.5	28.7
47°	2.3	9.8	15.1	21.2	26.5	28.7
48°	2.3	9.1	15.1	21.2	26.5	28.7
49°	1.5	9.1	15.1	21.2	26.5	28.7
50°	1.5	9.1	14.4	21.2	26.5	28.7
51°	1.5	9.1	14.4	21.2	26.5	28.7
52°	1.5	8.3	14.4	21.2	26.5	28.7
53°	1.5	8.3	14.4	21.2	26.5	28.7
54°	1.5	8.3	13.6	21.2	26.5	28.7
55°	1.5	7.6	13.6	20.4	26.5	28.0
56°	1.5	7.6	13.6	20.4	26.5	28.0
57°	1.5	7.6	12.8	20.4	26.5	28.0
58°	1.5	6.8	12.8	19.7	25.7	28.0
59°	1.5	6.8	12.1	19.7	25.7	27.2
60°	1.5	6.0	12.1	18.9	24.9	27.2
62.5°	1.5	5.3	10.6	18.1	24.2	25.7
65°	1.5	4.5	9.8	16.6	23.4	24.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	4.5	9.1	15.9	21.9	24.2
70°	1.5	4.5	8.3	14.4	21.2	21.9
72.5°	2.3	4.5	7.6	13.6	19.7	20.4
75°	3.0	4.5	6.8	12.1	18.1	18.9
77.5°	3.0	4.5	6.0	10.6	15.9	16.6
80°	3.0	3.8	5.3	8.3	12.8	13.6
82.5°	3.0	3.8	3.8	6.8	9.8	10.6
85°	2.3	3.0	3.0	3.8	6.8	7.6
87.5°	2.3	3.0	1.5	2.3	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)